

Date: Mon, 26 Jul 93 04:30:12 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #902  
To: Info-Hams

Info-Hams Digest                      Mon, 26 Jul 93                      Volume 93 : Issue 902

Today's Topics:

4U1WB - What Country Is It???  
Amateur Radio public service  
Broadcasting...  
CW in weird places  
DTMF Squelch Systems  
Help: Mobile Installation in a Honda Accord ('82)  
Intermodulation  
Power lines in car for a mobile radio  
rsgb gb2rs news 25th july  
Super Morse in Windows  
TS50 Illegal!  
What gives, 20/20? (was: ABC Perspective on Amateur Radio)

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: Sat, 24 Jul 1993 14:50:35 GMT  
From: psinntp!gdstech!gdstech!bat@uunet.uu.net  
Subject: 4U1WB - What Country Is It???  
To: info-hams@ucsd.edu

The World Bank station is not on "foreign soil" as the UN HQ is.  
It therefore counts only as USA for DXCC purposes.

--  
\*-----\*  
\* Pat Masterson D12-25 | KE2LJ@KC2FD \*  
\* Grumman Data Systems | 516-346-6316. \*  
\*-----\*

\* Bethpage, NY 11746 | bat@gdstech.grumman.com \*

-----  
Date: 24 Jul 93 12:11:47  
From: agate!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!  
umn.edu!lynx.unm.edu!dns1.NMSU.Edu!opus!forozco@ames.arpa  
Subject: Amateur Radio public service  
To: info-hams@ucsd.edu

I have been trying to get into NTS and message handling, but I still  
can't find a NTS net!!!  
I have only have 20 (and very, very soon 40) meter capabilities, but I  
haven't been able to find any NTS net. And I don't think there is any  
kind of traffic net around my area.  
I live in Las Cruces, NM , about 40-45 miles from EL PASO, TX. I  
would like to get some frequencies for NTS nets on either 20 or 40  
meters. Does any active traffic-handler have any info on this???

73's de luis  
--

Luis F. Orozco	N	5	U	H	B
forozco@dante.nmsu.edu			g	o	o
forozco@freedom.nmsu.edu			l	m	y
			y	e	

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Date: 25 Jul 93 13:34:39 GMT  
From: amusing!goldmine!elt@uunet.uu.net  
Subject: Broadcasting...  
To: info-hams@ucsd.edu

In article <1993Jul20.190859.23355@random.ccs.northeastern.edu>  
acm139@ccs.northeastern.edu (Scott Ehrlich) writes:

>To the person who mentioned broadcasting is illegal:

>

>1) W1AW does it;

>

>2) There is "Beaconing" which could be considered a broadcast.

>

>

>=====

>| Scott Ehrlich Internet: acm\_se@neu.edu

|

>| Amateur Radio: wylz                      AX.25: wylz@wa1phy.ma.usa.na                      |  
>=====

Got the good call, Scott, but not a copy of the FCC rule book? Doesn't seem fair....

Subpart A - General Provisions:

Part 97.3.Definitions.a: (10) Broadcasting. Transmissions intended for reception by the general public, either direct or relayed.

Subpart B: Part 97.111.Autorized transmission.b goes on to list authorized "one-way" transmissions (not broadcasting by definition) and includes  
(5) Transmissions necessary to assist persons learning, or improving proficiency in, the international Morse code;  
(6) Transmissions necessary to disseminated information bulletins; ...

Subpart C - Special Operations, 97.203, explicitly provides for beacon operation.

Anyway, the FCC is pretty specific (unless they're being purposely obscure!) about what we can and can not do. Anyway, broadcasting \_as defined\_ is illegal. There are plenty of one-way moded that are not, including all kinds of fun things like remote control, telecommand, telemetry...

Singed, Much to late to get a good call...

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Ed Taychert (AA2MZ) | Never be good at anything you don't like doing.  
elt@irony.com        | Disclaimer: My boss doesn't know I use his computer.

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Date: Sat, 24 Jul 93 15:25:31 GMT  
From: butch!rapnet!news@uunet.uu.net  
Subject: CW in weird places  
To: info-hams@ucsd.edu

In article <1993Jul22.185617.14498@cyphyn.UUCP> randy@cyphyn.UUCP (Randy) writes:

>From: randy@cyphyn.UUCP (Randy)  
>Subject: Re: CW in weird places  
>Date: Thu, 22 Jul 93 18:56:17 GMT

>: There *are* pirate signals on the satellites. Some hug the transponder  
>: edges, some hug the edge of existing signals. They're difficult to  
>: identify and track down if they remain low amplitude and hug next to  
>: an existing wideband signal. Spies? Who knows.  
>:

(...)

>Electronic hitchhiking! Or stowaways.. Are these narrow band sigs, data or  
>voice?

When the Desert Storm operation startup up, I noticed that most satellite distributed transmissions developed audible chirps and beeps. These included AM radio news, PBS, CNN, NBC, ABC, CBS. These spurious noises continued for several days. I suspected piggyback transmissions of some sort at the time.

When I first got my satellite dish, the possibility interested me so I performed a few simple calculations. If one reduces the bandwidth from video to voice level, the antenna gain requirements reduce proportionately. I estimated that CW bandwidth needed only a omnidirectional antenna and only a few DB gain required for voice communication.

The views expressed here are my own, not my employer's.  
Jeff Millar, Lockheed Sanders, 603-885-7047

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Date: 24 Jul 93 15:26:30 GMT  
From: att-out!att!cbnewsk!ad7i@RUTGERS.EDU  
Subject: DTMF Squelch Systems  
To: info-hams@ucsd.edu

Greetings...

I've started work on an article for QST that describes the DTMF Squelch systems that are included (or available as options) for some of the more recent imported VHF/UHF handhelds and mobile rigs.

After using these things for several months I've formed some opinions about the good, the bad and the ugly aspects of these systems. I'd also like to hear what you think about them. Please let me know of your experiences: what works, what doesn't work, what you like, what you don't like, how it could work better, etc.

I've got a pretty short fuse on this so it would be most helpful if I could have your input by August 1. Also, please send email directly to me, rather than posting it here. Feel free to post it here if you want, but I would be grateful if you could also send me a direct email.

Thanks for your consideration.

Paul Newland, ad7i  
Internet: paul.newland@att.com  
CIS: 73477,2012

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Date: Sun, 25 Jul 1993 00:11:27 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!torn!  
watserv2.uwaterloo.ca!watmath!undergrad.math.uwaterloo.ca!awpaeth@network.ucsd.edu  
Subject: Help: Mobile Installation in a Honda Accord ('82)  
To: info-hams@ucsd.edu

Short: Any net experience on running roof cables in older model Accords??!!

/Alan Paeth  
VE3AWP/KD3XG

--  
Longer: My second car is now old enough that I've taken Gary Coffman's advice on drilling the roof (well, I used a 3/4" punch). Dampening my enthusiasm: How to get the !@#\$\$#! coax from the dome light to the dash?! I've tried to snake over it to the BC antenna and continue in the nice channel waiting there. I gave up after a few hours of coat hanger pulling. I don't want the coax draped above the headliner if I can help it, nor do I want to drill any exterior holes (ie, into the roof-rack gutter).

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Date: Sat, 24 Jul 1993 23:48:31 GMT  
From: elroy.jpl.nasa.gov!sdd.hp.com!col.hp.com!fc.hp.com!myers@ames.arpa  
Subject: Intermodulation  
To: info-hams@ucsd.edu

Alan Bloom (alanb@sr.hp.com) wrote:

> Actually, in a phase detector, the DC component goes to zero when the  
> two signals are 90 degrees OUT of phase:  
  
>  $\sin(wt) \sin(wt + 90deg) = \sin(wt) \cos(wt) = (1/2) \sin(2wt)$   
  
> Again using a trig identity. Note that the second harmonic is still  
> present, but the DC component is missing. The second harmonic is not  
> generally a problem with a phase detector, since it is easy to filter out.

Not so fast, Alan. You're correct, of course, for the class of circuit you're talking about, but there are a number of things called "phase detectors" for which the above is not true, so you're running the risk of

confusing some people here. For example, most phase detectors in a "digital" PLL circuit are built such that the DC output is a minimum when the inputs are in phase (i.e., the edges are locked). The simplest example of this I can think of off the top of my head is the use of an XOR as a phase detector in such a PLL.

Bob Myers	KC0EW	Hewlett-Packard Co.	Opinions expressed here are not
		Systems Technology Div.	those of my employer or any other
myers@fc.hp.com		Fort Collins, Colorado	sentient life-form on this planet.

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Date: Wed, 21 Jul 1993 20:37:35 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!sdd.hp.com!hpscit.sc.hp.com!hplextra!hpcc05!hpunila!  
ddyer@network.ucsd.edu  
Subject: Power lines in car for a mobile radio  
To: info-hams@ucsd.edu

I always find that the grommet around the speedometer cable to have enough extra slack in it to allow me to route the wires next to the cable.

BTW, my company car, FORD Taurus has an extra grommet in the firewall. I bet a ham designed it.

N9KKH

Dennis Dyer

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Date: Sat, 24 Jul 1993 07:50:23 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!math.ohio-state.edu!uwm.edu!caen!destroyer!cs.ubc.ca!alberta!adec23!ve6mgs!  
usenet@network.ucsd.edu  
Subject: rsgb gb2rs news 25th july  
To: info-hams@ucsd.edu

Good morning. It's Sunday the 25th of July and here is the GB2RS news broadcast, prepared by the Radio Society of Great Britain.

First the headlines:- The RSGB's featured once again on the BBC; the 1994 RSGB President has been elected; and the North Devon UHF repeater is off the air.

The RSGB has once again been in the forefront of publicising amateur radio in the media. Broadcast last night on the BBC World Service was a programme called Waveguide which featured amateur radio and the RSGB's role in the hobby

for the past eighty years.

The Council of the RSGB has elected Ian Suart, GM4AUP, President for 1994. Ian is well known for his work as Zonal Council Member for Scotland, and his Chairmanship of the Data Communications Committee.

GB3ND, the North Devon seventy centimetre voice repeater on RB14 is currently off the air and will be out of service until the NTL engineering work on the site is completed. The North Devon Repeater Group apologises for any inconvenience caused and will keep users informed of developments via GB2RS. For further information contact the repeater group secretary G3PGA whose address is correct in the RSGB Call Book.

The RSGB has announced details of this year's elections to the Society's Council, and for the RSGB liaison Officer scheme. Full information appears in the August edition of Radio Communication which is being sent to all members this week.

Due to unforeseen circumstances the venue for the Torbay Mobile Rally, scheduled for Sunday the 29th of August, has been changed from that advertised. The new venue is the Audley Park School, Barton Road, Torquay. Further details from G3HTX on 0803 526762.

Now some items of HF DX news from the weekly RSGB DX News Sheet which is edited by Brendan McCartney, G4DY0. From Tuvalu, WB6RZK will sign T26RF from Wednesday the 28th until Tuesday the 3rd of August. From Liechtenstein, DL5DCM and DL6DCM will sign HB0/own call from tomorrow the 26th until the Friday the 30th of July on SSB only. From Hong Kong, G0TBI will be active as VR2/G0TBI from Friday the 30th of July for 14 days. Check CW frequencies 14,017 and 21,017kHz and SSB frequencies 14,245 and 21,245kHz, all plus or minus QRM.

We know of five rallies taking place today Sunday the 25th:

The Colchester Radio & Computing Rally is being held at the St Helena School, Sheepen Road, Colchester, which is adjacent to the Colchester inner by-pass, Avenue of Remembrance. The venue is signposted from the A12. Doors open at 10am and there is easy access for wheelchairs and ample car parking space. There will be trade stands catering for radio and computer needs as well as components suppliers. The event also features an amateur radio car boot sale and a bring & buy stall. Morse test will be available on demand, but candidates should remember to bring two passport-type photographs. Talk-in will be on channel S22.

The Norfolk Amateur Radio Club and Hewett School Radio and Electronics Group Rally is being held at Hewett School, Norwich. Doors open at 10.00am. There are trade stands and a bring & buy stall plus various displays. The venue is described as suitable for all the family.

The East Yorkshire Radio Rally is being held at the Beverley Racecourse, North Humberside. Doors open at 11.00am, or 10.45 for disabled visitors. The rally features trade and special interest group stands and a bring and buy stall. There will be model aircraft displays through out the afternoon. The organisers regret that unforeseen problems have prevented the running of Morse tests at this event. The revised schedule is now: at 12 noon the East Yorks Repeater Group will give a lecture, then at 1.30pm there will be a lecture by the East Yorkshire Packet support group. At 3.00pm the RSGB RLO and General meeting takes place. Talk-in is on channel S22 via GB4EYR.

The Radio Amateurs Invalid and Blind Club's Annual Romsey Picnic is being held at the Broadlands, Romsey, Hampshire. The event features the usual attractions, plus a junk sale, a bring & buy stall, refreshments and a grand draw. All members, families, friends and supporters are welcome. Talk-in will be on channel S22.

The Rugby Amateur Transmitting Society fifth Annual Rugby Radio Rally is being held at the BP Truckstop on the A5, some 2 miles North from junction 18 of the M1 motorway. Traders and visitors are welcome from 8.00am. The truckstop will be open for catering and other facilities throughout the day. Talk-in will be on channel S22 by GB5RRR.

We have been notified of only one rally for Sunday the 1st of August:

The McMichael Rally and Car Boot Sale is to be held at the Haymill Youth and Community Centre, Burnham Lane, Slough. The Centre is near the Burnham railway station. Starts at 10.30am. Talk-in will be on channel S22. Details from Neil, G0SVN or Roy, G4XYN tel: 0628 25952. This rally was originally scheduled for the 18th of July.

HF contest news now:

The first ever Islands on the Air SSB Contest started yesterday Saturday the 24th and finishes today Sunday at 1200GMT on 3.5 to 28MHz. See March RadCom page 81 for full details. The RSGB RoPoCo-2 Contest will take place next Sunday, the 1st of August from 0700 to 0900GMT between 3520 and 3570kHz CW only. See February RadCom page 66 for contest exchange information.

VHF contest news:

The RSGB 432MHz Low Power Contest is taking place today Sunday the 25th from 0800 to 1400GMT. It features four entry sections: single operator fixed, single operator portable, all others and short wave listener. February RadCom on page 66 has further details of this event. The RSGB's 2nd 432MHz Fixed Contest is scheduled for Sunday the 22nd of August. See February RadCom page 67 for further details.

A special event callsign to look out for this week is GB0PG. This is the



Pinkneys Green Scout Group from Maidenhead, Berkshire operating during the Groups Annual Camp at Tregate Castle in Monmouth from Saturday the 24th of July for one week. Guests of the group at the camp will be 30 Hungarian Scouts and Leaders. This is part of a two-year project which aims to assist in the redevelopment of Scouting in Hungary and to encourage international friendship through Scouting and Amateur Radio. The Pinkneys Green Scouts, who have raised over 10,000 in eight months to support the project, will travel back to Szombathely {pronounced Sombatey} Hungary in 1994. The operators of GB0PG are Peter and David Roberts, G0JPE and G1BPV respectively. Operating frequencies are 3,740, 7,090, 14,290, 21,360, 24,960 and 28,990kHz as well as 2m and 70cm FM and SSB. Contacts with any station are welcomed, especially so, if connected with Scouting or with Hungary.

And here is the solar factual data

For the period from the 12th to the 17th of July, with the quiet side of the sun looking our way, solar activity has been low. Nothing of any note has been reported. We are short of Meuden data this week so most is USAF/NOAA data. No flares have been reported. The sunspot count has meant about the 90s. Solar flux levels tended to increase slightly from 86 units on the 12th up to 100 units by the 18th, with the period averaging 91 units. Geomagnetic activity has declined with the period becoming quiet by the 14th with the Ap indices dropping to only 2 units. The period averaged 6 units; the state has been 'nil nothing to report'. We do not have all the radio quality index data to hand, but what we do have indicates that on the 13th to the 15th of July levels were normal, with all circuits being much the same. The aa indices are not to hand this week. The X-ray flux recovered from only A5.3 units on the 12th up to B1.3 by the 18th with the period averaging B1.0 units. The smoothed monthly values for December 1992 are: Spots RI 73.2; flux 127.3; magnetic Ap 16.2. Bartell rotation 2158 begins on the 21st of July.

Now the ionospheric data for Central France:

The F2 daytime critical frequencies at Poitiers, as reported by Meudon, are also incomplete this week. For the 12th to the 15th of July the daily highs average 7.5MHz and the darkness hour lows 4.1MHz. The 15th was marked by seven hours of blanketing Sporadic E.

Now the ionospheric data for the north:

Again we have limited data. For the period 12th to the 15th of July the F2 daytime critical frequencies at Ekaterinberg averaged 6.2MHz and the darkness lows 4.8MHz. Cycle 22 has caught out the forecasters on a number of occasions, so for what it is worth the latest forecast for spot minimum is May 1996 with a smoothed count of about 6, but in fact the cycle is declining very quickly and could well finish ahead of the forecast.

And lastly the solar forecast:

This week the more active side of the sun will be coming into view. Solar flux levels are expected to be about 100. Geomagnetic activity could be unsettled due to the passage of a coronal hole. Ionospheric levels based on the radio quality indices are expected to be normal at first then declining as the week goes by.

Finally in the main news, SSL has informed the Society that as of last Wednesday morning, the latest callsigns issued were in the G0 T X and G7 O Y series, and Novice calls in the 2 0 A G and 2 1 C C series. .

You're listening to GB2RS, the news broadcasting service of the Radio Society of Great Britain, transmitting in the 80, 40, 6 and 2 metre bands.

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Date: 24 Jul 93 15:23:33 GMT  
From: att-out!att!cbnews!wrb@RUTGERS.EDU  
Subject: Super Morse in Windows  
To: info-hams@ucsd.edu

In article <9307231342.AA12674@NADC.NADC.NAVY.MIL> skitch@NADC.NAVY.MIL (M. Squicciarini) writes:

>I had problems running SM in windows also until I read the manual!!  
>The souolution is in the documentation. It just a matter of defining  
>an icon and using the sm.pif file.  
>  
>73 -- marty -- nr3z                skitch@nadc.navy.mil

Read the manual?!?! Geez, where is this guy from?!?! ;)  
--

+=====+        Happy user of OS/2 2.0!  
| Wally Blackburn        |        Ask me about it!

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Date: 26 Jul 93 04:03:53 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!concert!duke!news.duke.edu!ee.ee.duke.edu!jbs@RUTGERS.EDU  
Subject: TS50 Illegal!  
To: info-hams@ucsd.edu

In article <1993Jul22.155308.6417@hemlock.cray.com> dadams@cray.com writes:  
>  
>|>I wish the rule were ammended to allow licenced Amateurs the privelege to  
>|>use 11 meters ...

>|>...If the TS-50 can do both, why not allow it  
>|>to do so if the user is a licenced Ham as long as he abides the 4 watt  
>|>pep rule etc?

>|Because the FCC correctly assumes that the hams would not stay within the  
>|4 watt output limit.

>Why? Do most hams violate all the other limits they have?

Not most hams, because there is little temptation to do so - they already have "powerful enough" gear within the power limits on amateur bands (though I have heard a few Technician stations on 10m remark that they were running a kilowatt).

And then there are the band edges on field day, for hams who managed to pass their exams without getting the right answers to the signal bandwidth questions...

Since the amateur bands largely allow high power and are self-policing, hams must lie in the beds that they have made... there is no self-policing on 11m and thus no incentive to abide by rules other than the threat of FCC fines, which are (or "should be") easy to inflict because of the simplicity of enforcement facilitated by type-acceptance requirements. Certainly 11m has gone to hell in a bucket because of lack of enforcement (and poor planning - 4 watts and short-range communications restrictions on a band with \*that\* sort of propagation? Feh!) - but don't expect the FCC to announce total surrender by removing all restrictions.

But more simply, you'd expect a large majority of hams with 100 watt transceivers to sit there at 4 watts while the party they were talking with reported that they couldn't quite hear everything they said? If so, you have more faith in the masses than I do.

-joe

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You spend the night  
Like you were spending a dime  
- Lyle Lovett

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Date: Sat, 24 Jul 1993 15:03:32 GMT  
From: iris.mbvlab.wpafb.af.mil!blackbird.afit.af.mil!blackbird!  
jmilller@uunet.uu.net  
Subject: What gives, 20/20? (was: ABC Perspective on Amateur Radio)  
To: info-hams@ucsd.edu

Our local ABC Radio Network affilliate, WBAP, ran a program called  
Perspective by Hugh Downs last night at 11 pm. The first 15

minutes of the program were devoted to amateur radio. It was a very good commentary on ham radio. If you get a chance, you might contact ABC News in New York to get a tape for local rebroadcast and for club meetings. I don't know whether they will supply it, but I am going to try.

Write to:

Perspective  
c/o Jim Farley  
ABC News  
125 Westend Ave.  
NY, NY 10023

73,  
Pete WB0FEW

That's very interesting, in light of the fact that last night's 20/20 had a 15 minute segment on Barry Goldwater, K7UGA, and \*not once\* was any of his involvement with amateur radio discussed. They found a couple of minutes to talk about his model airplane collection, but zip about ham radio. I had to work pretty hard to discern the back end of a tribander in one of the outdoor shots. What makes this even more interesting was that Hugh Downs was the interviewer for the segment.

I'm quite puzzled. Certainly Mr. Downs is aware of K7UGA's ham radio activities, but didn't mention them at all, not even a passing reference. Could it be that K7UGA is embarrassed to call himself a ham? Don't think so -- a local ham told me yesterday that he had just returned from Arizona where they filmed an AMSAT promo with K7UGA. So, what else could it be? Any conspiracy theorists out there want to take a whack at this?

Folks, we just lost a free national exposure opportunity for ham radio. I would think a few letters to ABC would be in order.

73, Jeff

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Jeff Miller, NH6ZW/N8, AFA1HE (ex WD6CQV, AFA8JM, AFA1D0)  
AFIT School of Engineering, Wright-Patterson AFB, OH  
Welcome to Ohio: Our state flower is the orange highway construction barrel.  
Help eliminate FOD in our lifetime.

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End of Info-Hams Digest V93 #902

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